

S1C17 Family Products overview

Products	Display	Clock frequency			Supply current					Supply voltage [V]	Memory			I/O port	Timer							SIO					RF converter	A/D converter	Multiplier/Divider	SVD *1	Form of delivery		
	LCD Driver segxcom	High-speed [Hz] (Max.)	Low-speed [Hz] (Max.)	Built-in oscillator [Hz] (Typ.)	Sleep [µA] (Typ.)	Halt [µA] (Typ.)	32kHz Operating [µA] (Typ.)	1MHz Operating [µA] (Typ.)	Flash ROM [Byte]		Mask ROM [Byte]	RAM [Byte]	8-bit timer		16-bit timer	16-bit PWM timer	Stopwatch	Watchdog timer	Clock	Real-time clock	UART	SPI	I ² C master	I ² C slave	Remote controller transmission and reception	Package					Chip		
S1C17100/600/700 series		[Stand-alone Low Power] This 16-bit MCU has improved the throughput and the development environment while maintaining low power consumption just like It includes LCD driver, power circuit, clock function and various types of interfaces, and is suitable for watches, clocks, remote controllers, and healthcare devices.												4/8-bit Epson MCU.																			
S1C17121	40 × 4 36 × 8	4.2M	32.768k	2.7M	0.15	0.9	7.0	250	1.8 to 3.6	–	32K	2K	36	3	3	1	○	○	○	–	2	1	○	○	○	2	8	○	○	TQFP14-100 VFBGA7H-144	○		
S1C17611	12 × 4 8 × 8	8.2M	32.768k	2.7M	0.75	2.5	12	400	1.8 to 3.6 _{*2}	32K _{*3}	–	2K	19	2	3	2	○	○	○	–	1	1	○	○	–	1	4	○	○	QFP12-48	○		
S1C17601	20 × 4 16 × 8	8.2M	32.768k	2.7M	0.75	2.5	12	340	1.8 to 3.6 _{*2}	32K _{*3}	–	2K	24	2	3	2	○	○	○	–	1	1	○	○	–	1	4	○	○	TQFP13-64 VFBGA8H-181	○		
S1C17621	40 × 4 36 × 8	8.2M	32.768k	2.7M	0.75	2.5	15	410	1.8 to 3.6 _{*2}	32K _{*3}	–	2K	36	3	3	1	○	○	○	–	2	1	○	○	○	2	8	○	○	TQFP14-100	○		
S1C17602	40 × 4 36 × 8	8.2M	32.768k	2.7M	0.75	2.5	15	410	1.8 to 3.6 _{*2}	64K _{*3}	–	4K	36	3	3	1	○	○	○	–	2	1	○	○	○	2	8	○	○	TQFP14-100 VFBGA7H-144	○		
S1C17622	56 × 4 52 × 8	8.2M	32.768k	2.7M	1.0	2.5	14	400	1.8 to 3.6 _{*2}	64K _{*3}	–	4k	40	3	3	1	○	○	○	–	2	1	○	○	○	2	8	○	○	TQFP15-128	○		
S1C17604	40 × 4 36 × 8	8.2M	32.768k	2.7M	1.0	2.5	14	400	1.8 to 3.6 _{*2}	128K _{*3}	–	8K	36	3	3	3	○	○	○	○	2	1	○	○	○	2	8	○	○	TQFP14-100	○		
S1C17624	56 × 4 52 × 8	8.2M	32.768k	2.7M	1.0	2.5	14	400	1.8 to 3.6 _{*2}	128K _{*3}	–	8K	40	3	3	3	○	○	○	○	2	1	○	○	○	2	8	○	○	TQFP15-128	○		
S1C17651	20 × 4	4.2M	32.768k	2M/1M/500K	TBD	TBD	TBD	TBD	2.0 to 3.6	16K	–	2K	12	1	–	1	–	○	○	○	1	1	–	–	–	–	–	–	○	○	TQFP13-64	○	
S1C17653	32 × 4	4.2M	32.768k	2M/1M/500K	TBD	TBD	TBD	TBD	2.0 to 3.6	16K	–	2K	12	1	–	1	–	○	○	○	1	1	–	–	–	–	–	–	○	○	TQFP14-80	○ *9	
S1C17711	64 × 16 56 × 24	8.2M	32.768k	2.7M	1.0	2.5	12	400	1.8 to 3.6 _{*2}	64K _{*3}	–	4k	29	–	4	4	○	○	○	–	1	1	○	○	○	2	8	○	○	TQFP15-128 VFBGA10H-144	○		
S1C17704 (S1C17701 *5)	72 × 16 56 × 32	8.2M	32.768k	–	1.0	2.6	17 _{*6}	550 _{*7}	1.8 to 3.6 _{*2}	64K _{*3}	–	4K	28	2	3	1	○	○	○	–	1	1	○	–	○	–	–	–	○	TQFP24-144 VFBGA10H-144 VFBGA8H-161	○		
S1C17702	88 × 16 72 × 32	8.2M	32.768k	2.7M	1.0	2.5	16	450	1.8 to 3.6 _{*2}	128K _{*3}	–	8K	28	3	3	1	○	○	○	–	1	1	○	–	○	–	–	○	○	QFP21-176	○		
S1C17703	120 × 16/14/32 60 × 64	8.2M	32.768k	2.7M	1.0	2.5	15	450	1.8 to 3.6 _{*4}	256K _{*3}	–	12K	35	–	5	4	○	○	○	–	2	3	○	○	○	2	8	○	○	QFP21-216	○		
S1C17705	128 × 16/24/32 64 × 64	8.2M	32.768k	2.7M	1.2	2.7	18	550	1.8 to 3.6 _{*4}	512K _{*3}	–	12K	35	–	5	4	○	○	○	–	2	3	○	○	○	2	8	○	○	VFBGA10H-240	○		
S1C17706	160 × 16/24/32 64 × 64	8.2M	32.768k	2.7M	1.2	2.7	18	550	1.8 to 3.6 _{*4}	1M _{*3}	–	12K	35	–	5	4	○	○	○	–	2	3	○	○	○	2	8	○	○	QFP22-256	○		
S1C17000/500 series		[Small package] The series products specialized for applications. Lineup of WCSP 48-pin packages (approx. 3-mm square) are suitable for portable gears having the Also, various types of serial interface (I/F) and A/D converters are available in sensor applications.												limited packaging area.																			
S1C17001	–	8.2M	32.768k	–	0.5	2.5	10	256	1.65 to 2.7 (Core) 1.65 to 3.6 (I/O)	–	32K	2K	28	2	3	1	○	○	○	–	1	1	○	–	○	–	–	–	–	○	○	QFP12-48 QFN7-48 WCSP-48	○
S1C17002	–	20M	32.768k	–	0.5	3.3	8.0	310	1.65 to 1.95 (Core) 1.65 to 3.6 (I/O)	–	128K	8K	34	8	2	1	–	○	–	○	1	1	○	○	○	–	4	○	–	○	TQFP12-64 WCSP-48	○	
S1C17003	–	20M	32.768k	–	1.0	3.3	8.0	350	1.65 to 1.95 (Core) 1.65 to 3.6 (I/O)	–	64K	4K	34	3	3	1	○	○	○	–	2	1	○	○	○	–	4	○	–	○	TQFP12-64 WCSP-48	○	
S1C17554	–	24M	32.768k	–	0.8	2.7	16	450	1.65 to 1.95 (Core) 1.65 to 5.5 (I/O)	128K	–	16K	40/34	–	5	4	○	○	○	–	2	3	○	○	○	–	4	○	–	○	TQFP13-64 (I/O=40) WCSP-48 (I/O=34)	○	
S1C17564	–	24M	32.768k	2 to 12M	0.8	2.7	16	450	2.0 to 5.5	128K	–	16K	40	–	5	4	○	○	○	–	2	3	○	○	○	–	4	○	–	○	TQFP13-64	○	
S1C17572	–	24M	32.768k	2 to 12M	TBD	TBD	TBD	TBD	1.65 to 1.95 (Core) 1.65 to 5.5 (I/O)	64K	–	8K	16	–	5	4	○	○	○	–	1	2	○	○	–	–	9 _{*8}	○	–	○	WCSP-48	–	
S1C17582	–	24M	32.768k	2 to 12M	TBD	TBD	TBD	TBD	2.0 to 55.5	64K	–	8K	24	–	5	4	○	○	○	–	2	3	○	○	○	–	9 _{*8}	○	–	○	TQFP13-64	○	

–: Under development

*1: SVD is an abbreviation for Supply Voltage Detector.

*2: During programming in flash memory: 2.7V to 3.6V

*3: This product uses SuperFlash® technology licensed from Silicon Storage Technology, Inc.

*4: During programming in flash memory: 2.5V to 3.6V

*5: Executes 1 instruction/1.5 clocks

*6: For S1C17701: 14µA

*7: For S1C17701: 420µA

*8: 12-bit resolvability

*9: Al pad, Au bump